BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE ELECTRICAL DIVISION

Name of the Work:-Detailed Estimate for Providing LED Street Lights, RCC poles and Control wires in ward no 11

Budget Head ..... P1517 .....

Division No. Electrical Estimate No. ..... For Rs. **2000000.00**

Sl.No.	SR Page & SL No	Description of Work	Unit	Qty.	Rate Rs.	Amount
1	27/4.36.1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	Nos	49	31250.00	1531250.00
2	108/17.12	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	Nos	49	893.00	43757.00
3	12/2.12.1	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded **Aluminium** unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm.	Mtrs	300	7.50	2250.00
4	56/7.6.3	Supplying of 1.1kv grade Aerial Bunched cable stranded & compacted Aluminium Phase conductor and Stranded Messenger conductor with all aluminium alloy, Phase conductor is insulated with XLPE compound insulated Messenger with specified IS - 14255:1995 & confirming to GTP of group A. 2 X 25 + 1 X 25 SQ.MM	Mtrs	300	143.00	42900.00
5	Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Mtrs	300	10.30	3090.00

6	55/7.4.6	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs	220	140.40	30888.00
7	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs	220	10.80	2376.00
8	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs	150	78.00	11700.00
9	7 56 /6.40.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A)40x40x6mm.	Mtrs	5	263.00	1315.00
10	46/6.12.4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100-125Amps	Nos	1	9915.00	9915.00
11	47/6.16	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63Amps TPN	Nos	1	1936.00	1936.00
12	19. 32/9	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.. Group A, PWD SR 2007-08,	Nos	1	4200.00	4200.00
13	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sq cms	25000	0.33	8250.00
14	10516.13.2	Supply and fixing/replacing of choke for Sodium Vapour lamp fitting in existing fitting mounted on tubular pole.250Watts	Nos	30	1950.00	58500.00
15	16.2	Supplying and fixing of HPSV lamps on existing fitting mounted on tubular pole Twin ended 250 to 400Watts	Nos	30	674.00	20220.00
16	16.26	Supplying and fixing/replacement of Ignitor suitable for 70 to 400Watts SV/MH fittings.	Nos	30	523.00	15690.00
17	5.4.2	Supply and fixing of ....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	Nos	10	306.00	3060.00
18	53.15	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos	10	160.00	1600.00
19	53.23	Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos	10	190.00	1900.00
20	53.19	Dead End Clamp/Anchor Clamp Assembly 25 to95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos	4	131.00	524.00
21	46.6	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger	Nos	10	115.00	1150.00
22	46.12	Installation of Insulation piercing connector for main to street lightMain : 16-95sqmm, Tap : 1.5-10sqmm(EP95)	Nos	10	54.00	540.00
23	46.10	Fixing of Universal Hook/Dead end clamp	Nos	4	115.00	460.00
24	108/17.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	24	176.00	4224.00
		Total Rs				1801695.00

		Mislenious and KRIDL Charges 11% Rs				198186.45
		Mislenious Rs				118.55
		Total Rs				**2000000.00**

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 .

Jr/Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
yelhanka zone
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELHANKA ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 20.00 LAKHS
RUPEES TWENTY LAKHS ONLY

Provided under P1517 Upgrading Street Lighting of Bangalore Major Roads

Registered as EE( ) No. Subject to conditions contained in

No. BBMP/EE/ELE/Y2/AS/36/2018-19
Dt 29.10.2018

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 20.00 LAKHS
Rupees TWENTY LAKHS ONLY

Under P1517 Upgrading Street Lights of Bangalore Major Roads

Registered as EE( ) No. 99
Subject to conditions contained in
enclosed memo EE( ) No. BBMP/EE/ELE/Y2/AS/36/18-19
Dt. 29.10.2018
Estimate/N Sanctioned
BBMP/EE/ELE/Y2/TS/27/2018-19
Dated 29.10.2018 Rs. 20.00 Lakhs

Executive Engineer